

Nailock[®] METHOD

OF SUSPENDED CEILING CONSTRUCTION

Provides a means of
mechanical fastening
for acoustical ceiling
materials.

CATALOG N-1

U. S. Pat. 2160794
U. S. Pat. 2419420

AND FOR FASTENING ALL NAILABLE MATERIALS
TO STEEL, CONCRETE AND MASONRY

NAILOCK STEEL DIVISION

THE SANYMETAL PRODUCTS CO., INC.

1701 URBANA RD. • CLEVELAND 12, OHIO

The NAILOCK METHOD OF SUSPENDED CEILING CONSTRUCTION



ADVANTAGES

The Nailock Method of suspended ceiling construction presents several exclusive advantages, the practicability of which have been revealed by the experience of contractors in making numerous installations. Advantages otherwise unobtainable are as follows:

securely fastens every unit in place and assures a rigid, safe and permanent installation. Nailock Universal Nailing Channels provide a means for constructing a rigid, safe and permanent installation of a wide variety of ceiling materials to receive acoustical tiles without limitations as to size, type or manufacturer.

Basically, the Nailock Method employs only four devices: (1) Nailock Universal Nailing Channel, incorporating a means for automatically and securely locking nails driven into it, provides a continuous, rigid and lightweight furring member; (2) Nailock Nails which, when driven into the nailing channel, loop themselves automatically around the rod. This is the exclusive feature of Nailock Universal Nailing Channels; (3) Spring Lock Clips for attaching Nailock Universal Nailing Channel to supporting members; (4) Metal End Lock Strips which maintain perfect alignment in installing plaster boards and prevent "breathing" through joints. The term Nailock describes a strong, perfectly-formed, complete loop of the nail around the rod, affording a stronger, firmer and safer form of attachment against pull than ordinary nails driven into wood or other nailable materials. Nailock Nails are manufactured in different sizes and lengths to meet construction requirements.

Nailock Universal Nailing Channels, although used primarily for suspended ceiling construction, provide an ideal method of installing panels, slabs, sheets and other kinds of covering, flat or corrugated, in fact any nailable material, over steel or concrete. The method is as simple and safe as it is economical. Nailock Universal Nailing Channels permit the use of a wide variety of materials commonly used for suspended ceiling construction and are equally adaptable to remodeling as well as to new construction work. Applications may be as varied as the architect's ingenuity in utilizing Nailock Universal Nailing Channels. Several applications are illustrated as on pages 3, 4, 5 and 6. Nailock Universal Nailing Channels may be used as "metal furring" for installing:

- Fire-resisting backing to receive acoustical tiles
- Thermo and sound insulating materials
- Ceiling and wallboards of fiber, Gypsum, etc.
- Plain asbestos sheets
- Plaster bases of Gypsum
- Wood furring strips

There are four methods of installing Nailock Universal Nailing Channels. These methods of use are illustrated at the bottom of this and the opposite page. The Nailock Method is the simplest, fastest and safest means for installing suspended ceilings with or without acoustical materials. Engineering Laboratory Test Data presented on page 7 substantiates fully the claim of safety and permanency.

For further information consult a Nailock Nailing Channel Distributor (see page 8 for complete list), or write direct to Nailock Steel Division, The Sany-metal Products Co., Inc., 1701 Urbana Road, Cleveland 12, Ohio.

All parts used by the Nailock Method are metal.

The wide nailing course of Nailock Universal Nailing Channels speeds work. The distance between the two edges of Nailock Universal Nailing Channel at the widest is nearly $\frac{3}{4}$ ", affording a nailing course so wide as to offer no difficulty in making the nail strike somewhere within its limits. Whenever the point of the nail strikes on either side of the channel, or on the rod in the center, it is automatically deflected into the proper course. This feature makes for the utmost speed in installation and uniformly good results from every nail locking or anchoring itself on the rod in the channel.

The Nailock Method is the simplest and safest method of installing a suspended ceiling construction with or without acoustical tiles, especially when the Nailock Spring Lock Clip is used for attaching Nailock Channel to the carrying member.

The Nailock Method is practical, structurally and economically, for constructing suspended ceilings where Asbestos Board, Gypsum Board or Structural Insulation Board are used as a finish. It is not necessary that an acoustical tile installation be used to justify the use of the Nailock Method.

The Nailock Method of suspended ceiling construction doesn't in any way alter the usual methods of suspending a ceiling but permits the use of the widest variety of backing or backerboard materials, any type of acoustical materials attachable by mechanical means, or by cementing, and all of the usual methods and materials of finishing a ceiling, including plastering.

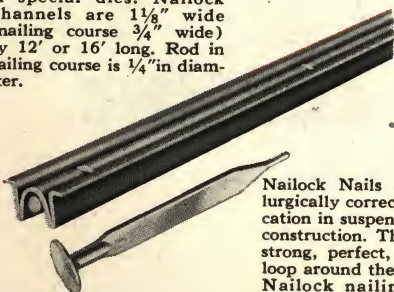
The Nailock Method provides a safeguard against vibration, sudden shock and damage to ceilings resulting from structural adjustments of the building, such as settling. The Nailock Method assures positive anchorage of backing or backerboard or finish ceiling materials.

The Nailock Method permits the use of larger crews in making installations in large areas due to the speed with which Nailock Universal Nailing Channels can be attached to carrying members through the use of Nailock Spring Lock Clips. Consequently, the muss commonly associated with ceiling construction work is evident for a shorter time. This makes Nailock especially preferable for remodeling. Because the Nailock Method is dry construction, it speeds completion of the job.

Metal End Lock Strips prevent passage of air between the edges of the backerboard and the consequent "breathing" that would occur through the joint.

FOUR BASIC METHODS OF USE

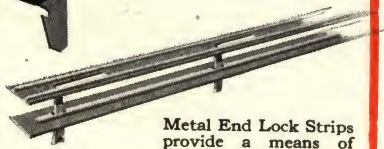
Nailock Universal Nailing Channels are formed of 16 gauge strip steel by rolling in special dies. Nailock Channels are $1\frac{1}{8}$ " wide (nailing course $\frac{3}{4}$ " wide) by 12' or 16' long. Rod in nailing course is $\frac{1}{4}$ " in diameter.



Nailock Nails are metallurgically correct for application in suspended ceiling construction. They form a strong, perfect, complete loop around the rod in the Nailock nailing course.

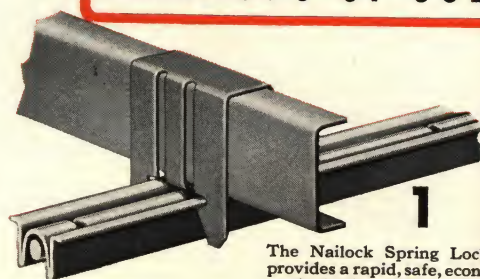


The Nailock Spring Lock Clip is easily snapped on to the carrying members and in turn speedily receives the Nailock Channel and securely holds it.



Metal End Lock Strips provide a means of maintaining perfect alignment in installing backerboard and prevents "breathing" through the joints.

2



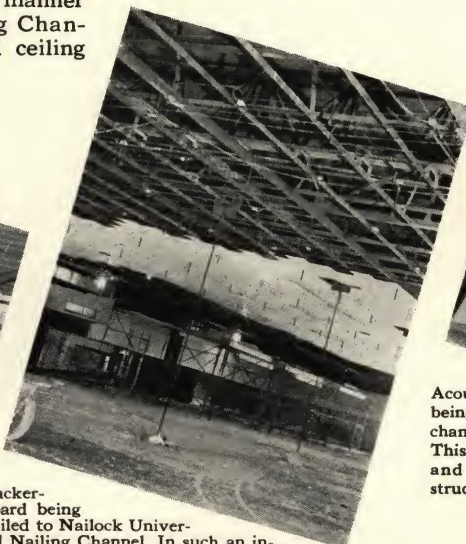
The Nailock Spring Lock Clip provides a rapid, safe, economical method of attaching Nailock Universal Nailing Channels to steel carrying members.

How it is being used

Applications of Nailock Universal Nailing Channels have been confined mostly to suspended ceiling construction, although their adaptability and practicability as a method of furring in concrete construction is obvious. Applications may be as varied as the architect's and contractor's ingenuity in adapting Nailock Universal Nailing Channels for various purposes. These illustrations show the manner in which Nailock Universal Nailing Channels are being used for suspended ceiling construction.



Nailock Universal Nailing Channels being attached to carrying members by use of wire tie. This suspended ceiling installation covers a total area of 100,000 square feet divided in three equal sections. This type of installation provides protection against excessive vibration and damage that might occur from severe earth shocks.



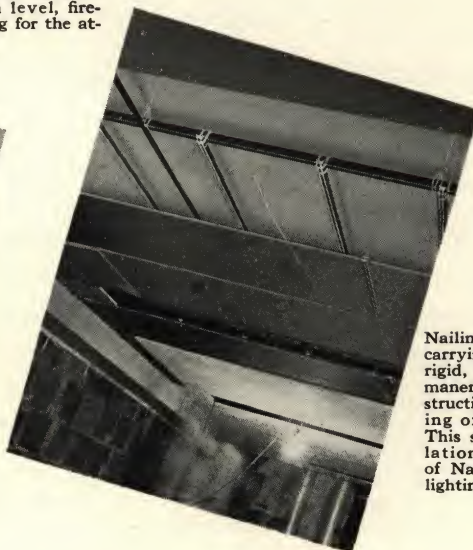
Backer-board being nailed to Nailock Universal Nailing Channel. In such an installation of backerboard Nailock Metal End Lock Strips maintain perfect alignment and prevent "breathing" through joints. Acousti-Lock Board with its ship-lapped long edges makes a level, fire-resistant, screwholding backing for the attachment of acoustical tiles.



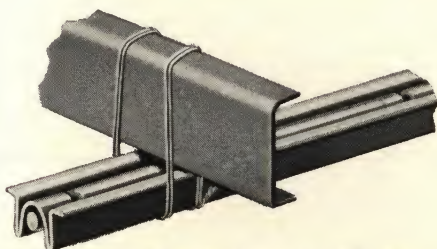
Acoustical tiles being fastened by mechanical means to backerboard. This provides a smooth, uniform, safe and permanent suspended ceiling construction.



Here Nailock Universal Nailing Channels are used for furring strips imbedded in pan type concrete construction to provide the means for attaching laminated backing board for receiving acoustical tile mechanically fastened. Refer to page 6 for construction details.



Nailing Channels attached to carrying members assures a rigid, uniform, safe and permanent suspended ceiling construction in Laboratory Building of a large manufacturer. This suspended ceiling installation illustrates adaptability of Nailock Method to troffer lighting.



2 Nailock Universal Nailing Channels may be attached to carrying members by the use of a saddle wire tie or a stirrup wire tie.



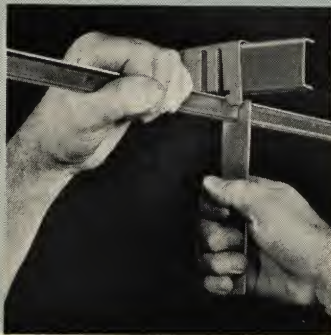
3 Nailock Universal Nailing Channels may be tack welded electrically or acetylene welded to steel carrying members.



4 A method of furring in concrete construction is provided when Nailock Universal Nailing Channels are imbedded in concrete slab or pan type construction.

THE *Nailock* METHOD OF SUSPENDED CEILING CONSTRUCTION WITH ACOUSTICAL TILE MECHANICALLY FASTENED OR CEMENTED TO SOLID BACKING

INSTALLATION REQUIRES *only 3 Operations*



Attach Nailock Universal Nailing Channel to carrying member by use of Nailock Spring Lock Clip. Use of this clip with special device for snapping it on to carrying member speeds up work and assures safety and permanency of installation.



Nailing solid backing to Nailock Universal Nailing Channel with Nailock Nails which form locking loop around rod and assure rigidity and permanency.



Cementing acoustical tile on to solid backing. This type of suspended ceiling construction avoids delay of waiting for plaster to dry.



Acoustical tiles being screwed on to solid backing. This provides for secure attachment of each tile unit, yet allows easy removal in emergencies without damaging tile.

PERMITS USE OF ANY ACOUSTICAL MATERIALS REQUIRED

The simplicity of this Nailock Method of suspended ceiling construction is emphasized by the operations illustrated. The solid backing is nailed directly to Nailock Universal Nailing Channels and provides a surface to which the small units of acoustical tile can be mechanically fastened by screws or cemented.

Acoustical tile cemented on or screwed on to solid backing provides a rigid, safe, permanent ceiling construction without the usual delay for a plaster base to dry. Solid backing adds fire protection and prevents "breathing" of the suspended acoustical tile ceiling. Acoustical tile mechanically fastened allows easy removal of the tile and replacement exactly as before whenever an emergency makes it necessary to get at the utilities above the ceiling area. An attachment for electric hand drills makes application of mechanically fastened tile extremely fast and sets each screw to just the right depth without any lost motion.

SPECIFICATIONS

For Furnishing and Installing Suspended Ceilings With Acoustical Treatment by the Nailock Method

Areas to be treated: Where called for on architect's plans, specifications and room finish schedule.

Hangers: Shall be spaced 4'-0" O. C. in both directions of the area to be treated, special care being taken to see that the final rows of hangers are never spaced greater than 6" from any wall. Hangers to be of size and type.....

Carrying members: Shall be for normal conditions, 1½" cold rolled channels attached to hangers at proper level, and shall be water leveled, all to be spaced 4'-0" O. C. and supported every 4'-0".

Nailing Channels: Are to be Nailock Universal Nailing Channels spaced approximately but not over 24" O. C. and attached to the carrying members. Attachment to be made by means of Nailock Spring Lock Clip or by means of a double 16 gauge wire tie. The first and the last Nailock Channels to be installed approximately 2" from the parallel walls.

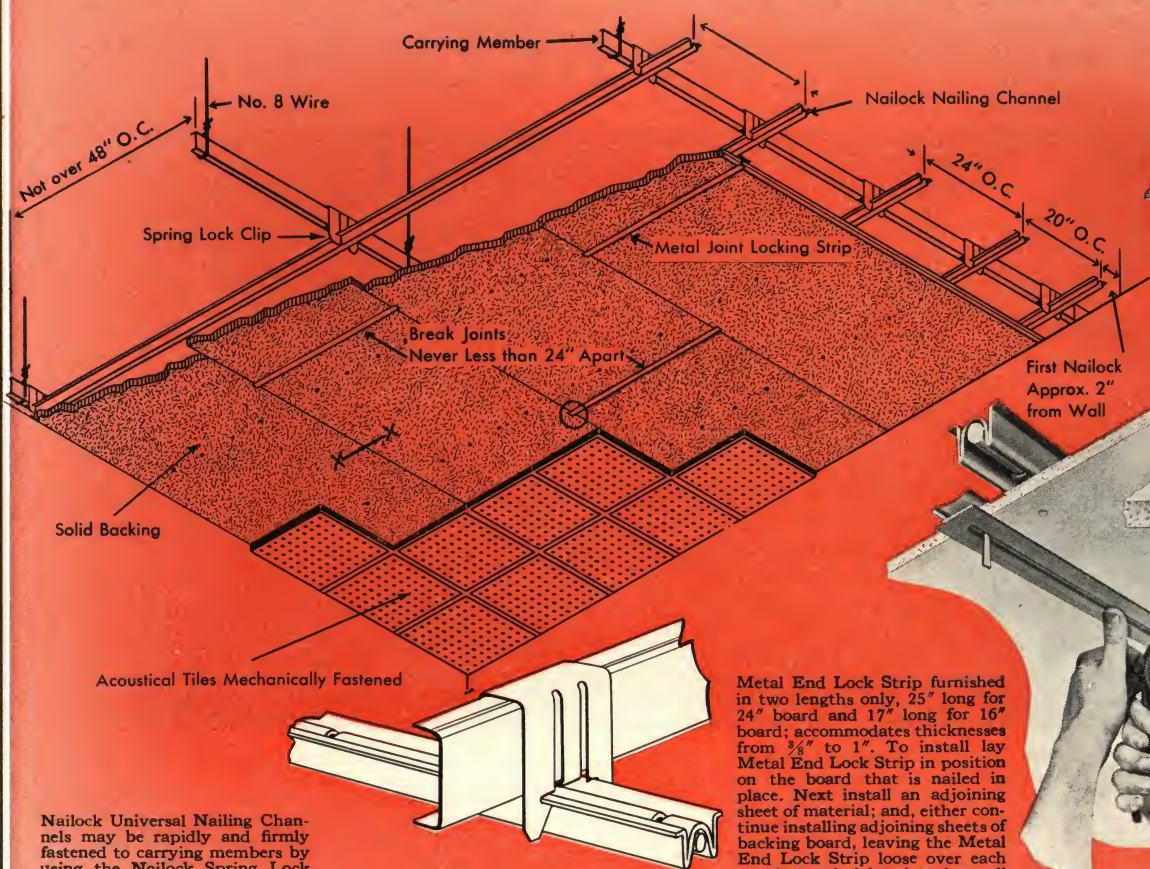
Backing: (1) Where acoustical tile are to be mechanically fastened; The entire area is to be covered with a solid backing of 9/16" x 24" x 96" double laminated Gypsum Board with a screw retaining core, such as Acousti-Lock Board, nailed directly to Nailock Universal Nailing Channels with Nailock Nails, 1¾" in length, spaced not over 5" apart. (2) Where acoustical tile are to be cemented on; The entire area is to be covered with a solid backing of 1/2" x 24" x 96" Gypsum Sheathing nailed directly to Nailock Universal Nailing Channels with Nailock Nails, 1¾" in length, spaced not over 5" apart. The backing for either mechanically fastened or cemented on acoustical tile shall be installed at right angles to the Nailock Universal Nailing Channels and care taken that all long-side joints be well matched. In all cases the backing shall extend beyond the Nailock Channels and a Nailock Metal End Lock Strip installed at every cross joint.

Acoustical tile: (1) Cemented on; To be cemented to the backing in accordance with the specifications and instructions of the manufacturer of the acoustical tile specified. **Note:** When no acoustical treatment is to be applied and ceiling finish is to be asbestos board, Gypsum Board or structural insulation board, use this specification and omit preceding paragraph on acoustical tile. (2) Mechanically fastened; To be applied to the backing by means of small wood screws (four to each tile), all in accordance with the specifications and instructions of the manufacturer of the acoustical tile specified.

Sound transmission: While the function of acoustical tile is mainly to act as a sound deadener for noises originating within the room or space where they are installed, the Acoustical Tile-Nailock combination, in addition, makes a very effective sound stop for noises originating both from within and without. The Nailock Nails, forming a loop around the rods, virtually afford a double spring isolation against transmission of sound.

DETAIL OF ACOUSTICAL TILE MECHANICALLY FASTENED

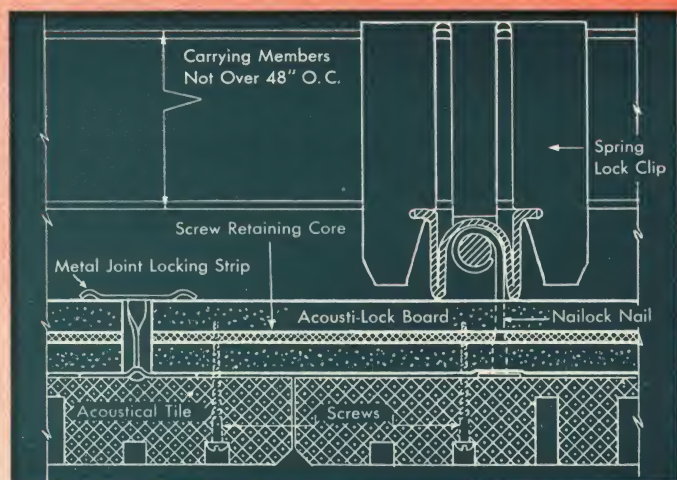
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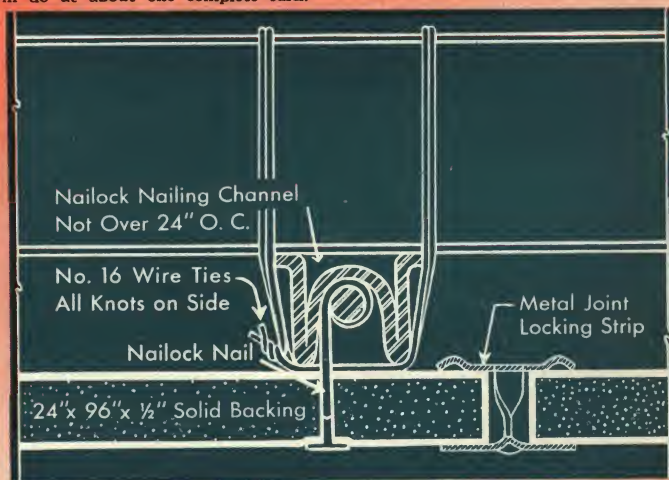
Nailock Universal Nailing Channels may be rapidly and firmly fastened to carrying members by using the Nailock Spring Lock Clip. The use of this clip speeds up the work and assures a rigid, firm and permanent installation.

Special Zipper Splice Lock Clip holds adjoining ends of Nailock Nailing Channel in rigid position and prevents bulges or depressions in ceiling surface. This unit is securely fastened over adjoining channels by driving wedge on side until flush with the ends. Perforations in bottom of clip permit nailing through it.

Metal End Lock Strip furnished in two lengths only, 25" long for 24" board and 17" long for 16" board; accommodates thicknesses from $\frac{3}{8}$ " to 1". To install lay Metal End Lock Strip in position on the board that is nailed in place. Next install an adjoining sheet of material; and, either continue installing adjoining sheets of backing board, leaving the Metal End Lock Strip loose over each opening and tightening them all before moving scaffold, or tighten Metal End Lock Strip as you install each adjoining piece of backer board. To tighten Metal End Lock Strip over each opening take an ordinary pair of pliers, pull down metal tabs and twist each one until the holding tab breaks off flush with the bottom strip of the Metal End Lock Strip, which it will do at about one complete turn.



Construction detail where acoustical tiles are to be screwed on a laminated board with screw retaining core (Acousti-Lock Board). Size of this board is $\frac{1}{2}$ " x 24" x 96". Ship-lap on long edges. The ship-lapped edges prevent "breathing". The Nailock Method permits the use of a wide variety of materials and any acoustical materials desired installed in any pattern.



Nailock Universal Nailing Channels or Furring Strips may be fastened to carrying members by means of a double 16 gauge wire tie, as illustrated. This illustration also shows how backing board is nailed to Nailock Universal Nailing Channel and provides a good foundation to which any acoustical tile may be cemented.

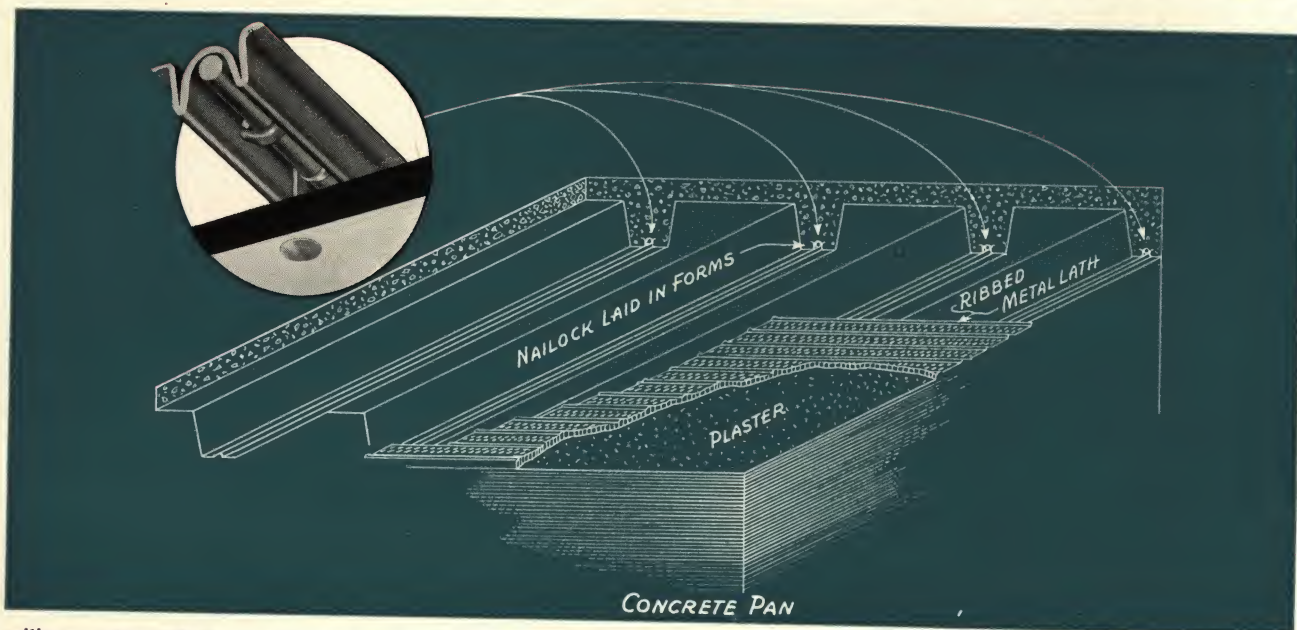
The NAILOCK Method Permits Use of a Wide Variety of Materials for Suspended Ceiling Construction

The installation of permanent or temporary ceilings, requiring the use of Asbestos Board, Gypsum Board or Structural Insulation Board, and other similar materials, is facilitated by the use of Nailock Universal Nailing Channels. Nailing units of such materials to Nailock Channels with Nailock Nails brings each unit of the material tight against the Nailock Channel and holds it firmly and permanently in place. Be sure to use proper length Nailock Nails for the thickness of material being applied. Use $1\frac{1}{2}$ " long nails on $\frac{1}{4}$ " to $\frac{3}{8}$ " thick board; $1\frac{3}{4}$ " long nails on $\frac{1}{2}$ " thick board; 2" long nails on any material that is thicker than $\frac{1}{2}$ " up to 1" thick; $2\frac{1}{2}$ "

long nails in material 1" to $1\frac{1}{2}$ " thick; and 3" long nails in material $1\frac{1}{2}$ " to 2" thick. A Metal End Lock Strip may be used for concealing the joints and maintaining perfect alignment. Taping long side joints as commonly practiced with Gypsum Wallboard can be done where desired.

Nailock Universal Nailing Channels must be installed in accordance with the material manufacturer's specifications covering the spacing for the installation of the materials. Nailing shall also be done to comply with the manufacturer's specifications. Some materials require nailing strips not more than 12" O. C., while others require them not more than 16" O. C.

THE *Nailock* METHOD OF FURRED PAN TYPE CONCRETE CONSTRUCTION

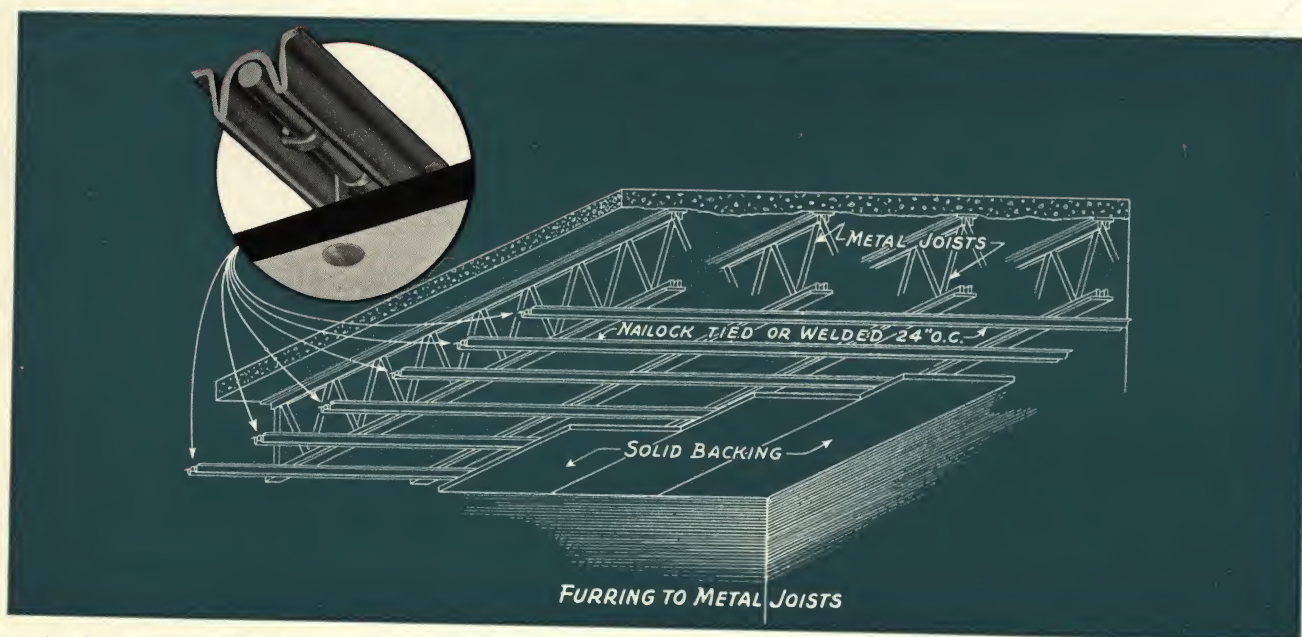


For ceilings under ribbed or pan type concrete Nailock Universal Nailing Channels provide a convenient, suitable, safe and permanent means for the installation of various materials, such as ribbed lath for plaster, Gypsum Board, etc., which may be nailed with Nailock Nails directly to Nailock Channels. With Nailock Channels set in place and concrete poured around them, a strong, firm anchorage in the concrete is provided. Refer to laboratory test data on page 7 for

load carrying capacity on Nailock Channels and Nailock Nails.

When acoustical tiles are to be applied, provision must be made for a suitable backing, such as Gypsum Board, to which the tiles may be fastened. The installation of the backing and the acoustical tiles should be made in the manner illustrated and described on pages 4 and 5.

THE *Nailock* METHOD OF FURRING TO STEEL JOISTS



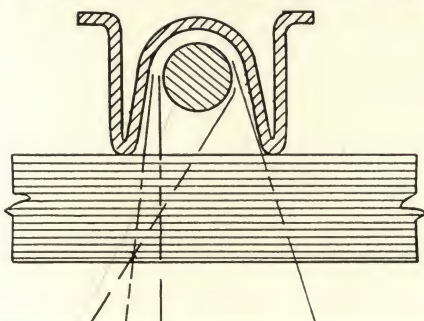
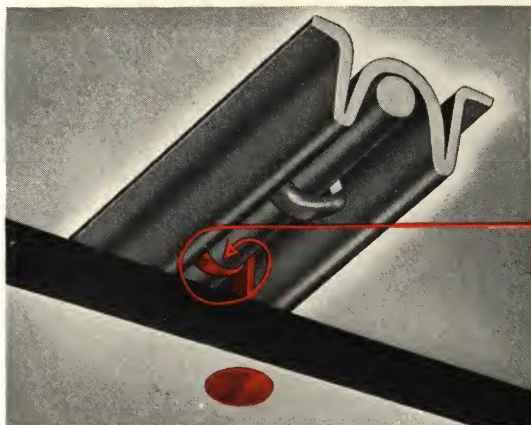
To provide for installation of ceiling to steel joists furring strips of Nailock Universal Nailing Channels provide for a firm, safe and permanent ceiling. Nailock Channels should be installed at right angles to the steel joists in accordance with limitation of span requirements as set forth in the current issue of A.S.A. and tack welded or wire tied to joists with two strands of 16 gauge or four strands of 18 gauge galvanized wire. Nailock Universal Nailing Channels provide for the subsequent application of various materials, such as ribbed lath for plaster, Gypsum Board, etc., which may be nailed

directly to Nailock Channels with Nailock Nails. Refer to laboratory test data on page 7 for load carrying capacity on Nailock Channels and Nailock Nails.

When acoustical tiles are to be applied, provision must be made for a suitable backing, such as Gypsum Board, to which the tiles may be fastened. The installation of the backing and the acoustical tiles should be made in the manner illustrated and described on pages 4 and 5.

THE *Nailock* METHOD SECURELY FASTENS EVERY UNIT OF MATERIAL IN PLACE, ASSURING A POSITIVE ANCHORAGE AND A SAFE, PERMANENT INSTALLATION

NOTE: Width of nailing course provided by Nailock Universal Nailing Channels and how Nailock Nail locks on rod and holds backing or other material tight against channel.



The width of the Nailock nailing course speeds work because nails may be driven from several different angles and still strike somewhere within the limits of the nailing course. Whenever the point of a nail strikes on either side of the channel, or on the rod in the center, it is automatically deflected into the proper course to form a complete loop lock around the rod, thus providing security and safety that is otherwise unobtainable. This makes for the utmost speed in installation.

ENGINEERING SERVICE

Your inquiries in regard to the use and application of Nailock Universal Nailing Channels for specific purposes will be given prompt and careful attention by engineers of long experience in the appli-

cation of insulating, acoustical and other materials. Engineering and laboratory work is conducted continually for the purpose of proving the degree of practicability of Nailock Universal Nailing Channels from the standpoint of economy, convenience and betterment of construction. Address your request for engineering assistance to Nailock Steel Division, The Sanymetal Products Co., Inc., 1701 Urbana Road, Cleveland 12, Ohio.

Engineering Laboratory Tests Prove Safety and Permanency of *Nailock* Method

Nailock Universal Nailing Channels were subjected to engineering laboratory tests by:

The James H. Herron Company
Engineers and Chemists
1360 West Third Street
Cleveland 13, Ohio

The observers were L. S. Johnson and L. F. Herron, chief metallurgist. Test Data Report was issued on June 18, 1947.

Test was conducted with 4' span of Nailock Universal Nailing Channel with ends free. Test showed load carrying capacity exceeding all requirements. Not until a load of 32 lbs. per square foot was applied to the 4' span did a failure occur. This would indicate Nailock Universal Nailing Channels have the load carrying capacity required for normal types of ceiling construction.

The average holding power of Spring Lock Clips is 310 lbs. The load required to pull 1' of Nailock Universal Nailing Channel from a concrete slab is 1710 lbs.

The holding power of Nailock Nails driven into Nailock Channel as derived from six tests was determined to be an average of 122 lbs.

The James H. Herron Co. Our Order P-7952

Test Data Report

To: Sanymetal Products Company

Observer: L. S. Johnson - L. F. Herron

Order No. 9468

Date: June 18, 1947

At: Lab.

No. of Sheets: 1

Sheet No. 1

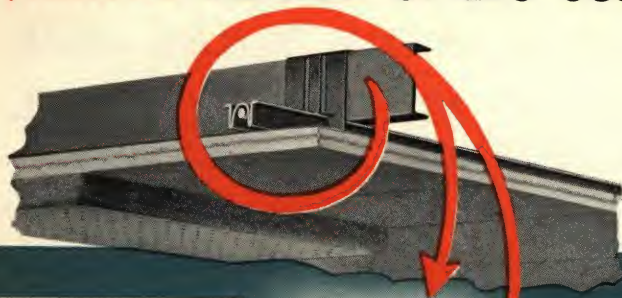
Test No.	Description	Center Deflection (in.)
1	On 4'-0" span with 4 lb. per foot distributed load	.128 - .189
2	" " " 6 lb. " " " " " "	.282 - .285
3	" " " 10 lb. " " " " " "	.467 - .468
4	On 4'-0" span failure occurred by yielding at 32 lb. per foot distributed load. Center deflection was 1.50 inches at this point.	
5	Holding power of nails to Nailock channel after driving was as follows:	
	110 lb.	
	120 lb.	
	140 lb.	
	120 lb.	
	130 lb.	
	120 lb.	
6	Load required to pull 1'-0" of Nailock from 1:2:4 concrete slab seven days old - 1710 lb.	
7	Average holding power of clips - 310 lb. (Clips cut Nailock)	

*Ends Free.

Respectfully submitted,
THE JAMES H. HERRON COMPANY
Louis F. Herron
Chief Metallurgist

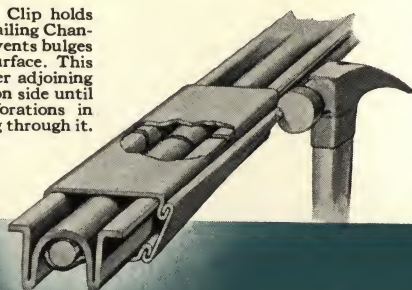
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THE *Nailock* METHOD SPEEDS SUSPENDED CEILING CONSTRUCTION



Note spring lock feature incorporated in design of Nailock Spring Lock Clip. It is made of tempered spring steel. It snaps in place and stays there forever.

Special Zipper Splice Lock Clip holds adjoining ends of Nailock Nailing Channel in rigid position and prevents bulges or depressions in ceiling surface. This unit is securely fastened over adjoining channels by driving wedge on side until flush with the ends. Perforations in bottom of clip permit nailing through it.



Metal End Lock Strip furnished in two lengths only, 25" long for 24" board and 17" long for 16" board; accommodates thicknesses from $\frac{3}{8}$ " to 1". To install lay Metal End Lock Strip in position on the board that is nailed in place. Next install an adjoining sheet of material; and, either continue installing adjoining sheets of backing board, leaving Metal End Lock Strip loose over each opening and tightening them all before moving scaffold, or tighten Metal End Lock Strip as you install each adjoining piece of backer board. To tighten Metal End Lock Strip over each opening take an ordinary pair of pliers, pull down metal tabs and twist each one until the holding tab breaks off flush with the bottom strip of the Metal End Lock Strip, which it will do at about one complete turn.

Nailock Universal Nailing Channel Distributors

Distributors for Nailock Universal Nailing Channels are located in principal cities throughout the United States and Canada. In the following listing of distributors every state and province is listed for the purpose of identifying the particular distributor who is the source of supply for each state or province. Whenever unable to obtain Nailock Universal Nailing Channels through distributors, please wire or write factory at Cleveland 12, Ohio.

ALABAMA—Birmingham: Acousti Engineering Co., American Life Bldg.
ARIZONA—Phoenix: J. B. Matz, 817 West Madison.
ARKANSAS—Little Rock: Acoustics & Specialties, Inc., 313 Center Street.
CALIFORNIA—Los Angeles: The Harold E. Shugart Co., 911 N. Sycamore Avenue; Oakland: The Western Asbestos Co., 428 Latham Sq. Bldg.; San Francisco: The Western Asbestos Co., 675 Townsend Street; Sacramento: The Western Asbestos Co., 1224 I Street.
COLORADO—Denver: Lauren Burt, Inc. of Colorado, 3254 Walnut Street; Salt Lake City, Utah: Lauren Burt, Inc. of Wyoming, 557 So. Third West.
CONNECTICUT—Hartford: The C. A. Bader Co., 229 Buckingham Street.
DELAWARE—Baltimore, Md.: The Hampshire Corp., 330 West 24th Street.
DISTRICT OF COLUMBIA—Bladensburg, Md.: The Hampshire Corp., 4626 Defense Highway.
FLORIDA—Jacksonville: Acousti Engineering Co. of Fla., 139 Riverside Avenue; Miami: Acousti Engineering Co. of Fla., 46 N. E. Sixth Street; Tampa: Acousti Engineering Co. of Fla., P. O. Box 291.
GEORGIA—Atlanta: Acousti Engineering Co., 188 Walker Street, S. W.
IDAHO—Denver, Colorado: Lauren Burt, Inc. of Wyoming, 3254 Walnut Street; Spokane, Wash.: Asbestos Supply Co. of Spokane, 1318 Maple Avenue.
INDIANA—Chicago, Ill.: Branch-Nicoloff Co., 549 W. Washington Blvd.; Louisville, Ky.: E. C. Decker Co., 107 W. Main Street.
ILLINOIS—Chicago: Branch-Nicoloff Co., 549 W. Washington Blvd.
IOWA—Omaha, Neb.: Earl S. Lewis & Co., 412 Woodmen of the World Bldg.
KANSAS—Kansas City, Mo.: The Henges Co., Inc., 2619 Grand Avenue; Wichita: The Henges Co., Inc., 1211 E. Central Avenue, P. O. Box 1440.
KENTUCKY—Louisville: E. C. Decker Co., 107 W. Main Street.

LOUISIANA—New Orleans: Acoustics & Specialties, Inc., Hibernia Bank Bldg.
MAINE—Boston, Mass.: Pitcher & Co., 177 State Street.
MARYLAND—Baltimore: The Hampshire Corp., 330 West 24th Street.
MASSACHUSETTS—Boston: Pitcher & Co., 177 State Street.
MICHIGAN—Grand Rapids: Leggett-Michaels Co., 906 Grandville Avenue.
MINNESOTA—Minneapolis: Insulation Sales Co., 251 Sixth Avenue, S.
MISSISSIPPI—New Orleans, La.: Acoustics & Specialties, Inc., Hibernia Bank Bldg.
MISSOURI—Kansas City: The Henges Co., Inc., 2619 Grand Avenue; St. Louis: The Henges Co., Inc., 2814 Locust Street.
MONTANA—Spokane, Wash.: Asbestos Supply Co. of Spokane, 1318 Maple Street.
NEBRASKA—Omaha: Earl S. Lewis & Co., 412 Woodmen of the World Bldg.
NEVADA—Los Angeles, Calif.: The Harold E. Shugart Co., 911 N. Sycamore Avenue; San Francisco, Calif.: The Western Asbestos Co., 675 Townsend Street.
NEW HAMPSHIRE—Boston, Mass.: Pitcher & Co., 177 State Street.
NEW JERSEY—Elizabeth: Jacobson & Co., Inc., 1079 East Grand Street.
NEW MEXICO—Albuquerque: Jay Grear Corporation, 1010 North First Street.
NEW YORK—Albany: Collum Acoustical Co., 103 No. Lake Avenue; Buffalo: Collum Acoustical Co., 51 Wilkeson Street; Jamestown: Collum Acoustical Co., 409 Front Street; New York: Jacobson & Co., Inc., 227 East 44th Street; Rochester: Collum Acoustical Co., 3137 Elmwood; Syracuse: Collum Acoustical Co., 918 Canal Street.
NORTH CAROLINA—Charlotte: Acousti Engineering Co. of the Carolinas, Inc., 2501 South Blvd.
NORTH DAKOTA—Minneapolis, Minn.: Insulation Sales Co., 251 Sixth Avenue, S.
OHIO—Akron: The Geo. P. Little Co., Inc., P. O. Box 1111; Cincinnati: E. C. Decker Co., 1195 Gilbert Street; Cleveland: The Geo. P. Little Co., Inc., 1100 West 9th Street; Columbus: The Geo. P. Little Co., Inc., 1313 Edgemoor Road; Toledo: The Geo. P. Little Co., Inc., 206 Polansetta Avenue.
OKLAHOMA—Oklahoma City: Oklahoma Acoustical & Specialties, State Capital Station, P. O. Box 3193; Tulsa: Oklahoma Acoustical & Specialties, 201 Tuloma Bldg.
OREGON—Portland: Asbestos Supply Co. of Oregon, 221 S. W. Front Avenue.

PENNSYLVANIA—Harrisburg: Jacobson & Co., Inc., 443 S. Cameron Street; Philadelphia: Jacobson & Co., Inc., 3646 Walnut Street; Pittsburgh: The Geo. P. Little Co., Inc., 32 Isabella Street.
RHODE ISLAND—Boston, Mass.: Pitcher & Co., 177 State Street.
SOUTH CAROLINA—Charlotte, N. C.: Acousti Engineering Co. of the Carolinas, Inc., 2501 South Blvd.
SOUTH DAKOTA—Minneapolis, Minn.: Insulation Sales Co., 251 Sixth Avenue, S.
TENNESSEE—Chattanooga: Len Herndon Co., Inc., 415 Ochs Bldg.; Knoxville: Len Herndon Co., Inc., 128 Helms Street; Memphis: Acoustics & Specialties, Inc., Sterick Bldg.; Nashville: Len Herndon Co., Inc., 1720 Broad Street.
TEXAS—Dallas: S. W. Nichols Co., 209 Exposition Avenue; El Paso: Jay Grear Corporation, 215 North Poplar Street; Houston: S. W. Nichols Co., 5402 Belle Street; Weslaco: S. W. Nichols Co.
UTAH—Salt Lake City: Lauren Burt, Inc. of Wyoming, 557 So. Third West.
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VIRGINIA—Richmond: The Hampshire Corp., 2513 Chamberlayne Avenue; Roanoke: The Hampshire Corp., P. O. Box 82.
WASHINGTON—Seattle: Asbestos Supply Co. of Seattle, 1st at Jackson Street; Spokane: Asbestos Supply Co. of Spokane, 1318 Maple Avenue; Tacoma: Asbestos Supply Co. of Tacoma, 1926 Pacific Avenue.
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MANITOBA—Winnipeg: Dominion Sound Equipments Ltd., 65 Rorie Street.
NOVA SCOTIA—Halifax: Dominion Sound Equipments Ltd., 86 Hollis Street.
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